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पोर्टेबल फील्ड टेस्टिंग किट — विशिष्टि

Portable Field Testing Kit for
Onsite Testing of Drinking Water —
Specification

ICS 13.060.50; 13.060.60; 13.060.70

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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Water Quality Sectional Committee had been approved by the Chemical Division Council.

About 80 percent of the diseases suffered by human being are waterborne which are caused due to the presence of some chemical and microbial parameters in water beyond permissible limits. The permissible limits of these parameters in drinking water have been specified in IS 10500 : 2012 'Drinking water — Specification'. In case parameters exceed the permissible limits it may also affect the aquatic life. In order to lead a healthy life, it is necessary to test the drinking water in a laboratory and field.

The Field Testing Kit (FTKs) is a simple device which can be used for rapid testing of some critical water quality parameters in the field. For compliance and/or detailed potability of drinking water refer to IS 10500. By onsite testing, the general quality of water can be easily assessed and this can give firsthand information on the quality of water. These FTKs are intended to be used mainly, but not limited to the grass root field functionaries.

This standard incorporates the following related to Field Testing Kit (FTK):

- a) Water quality parameters to be tested;
- b) Method of test for these parameters; and
- c) Minimum shelf life of reagent used.

The composition of the Committee responsible for the formulation of this standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded of value should be the same as that of the specified value in this standard.

Indian Standard

PORTABLE FIELD TESTING KIT FOR ONSITE TESTING OF DRINKING WATER — SPECIFICATION

1 SCOPE

This standard prescribes the requirements of Field Test Kits (FTKs) for onsite testing of drinking water for measurement of specified parameters in drinking water.

2 REFERENCE

The following standards listed in Annex A contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards.

3 TERMINOLOGY

For the purpose of this standard, the definitions as given in IS 7022 (Part 1) and IS 7022 (Part 2) shall

apply, in addition to the following:

3.1 Permissible Tolerance, percent

It is the variation permitted between the value obtained by testing as per kit when compared to the value obtained when testing by method of test as specified in col (4) of Table 1. This permissible tolerance shall also be applicable on the requirement specified in col (3) of Table 1.

4 TESTS

4.1 The Field Test Kits (FTKs) shall have facilities to carry out test as prescribed in col (4) of Table 1 for physiochemical and microbiological parameters prescribed in col (2) of Table 1. Smaller test kits can also be developed subject to the condition that it forms the part of the FTK which will be able to carry out all the test for all the parameters listed in col (2) of Table 1.

Table 1 Parameter Concerning Physical, Chemical and Microbiological Substances
(Clauses 3.1, 4.1, 4.2, 6.1, 9.5.2, and 9.6)

Sl No.	Parameters	Requirement	Method of Test as per IS	Permissible Tolerance, Percent (for Checking the Conformity of FTKs)
(1)	(2)	(3)	(4)	(5)
i)	pH	6.5 - 8.5	IS 3025 (Part 11)	± 5
ii)	Turbidity, NTU, <i>Max</i>	1	IS 3025 (Part 10)	± 5
iii)	Total dissolved solids, mg/l, <i>Max</i>	500	IS 3025 (Part 16) (see Note 6)	± 5
iv)	Chloride (as Cl), mg/l, <i>Max</i>	250	IS 3025 (Part 32)	± 5
v)	Free residual chlorine, mg/l, <i>Min</i>	0.2	IS 3025 (Part 26)	± 5
vi)	Iron (as Fe), mg/l, <i>Max</i>	1.0	IS 3025 (Part 53)	± 5
vii)	Nitrates (as NO ₃), mg/l, <i>Max</i>	45	IS 3025 (Part 34/Sec 1) or IS 3025 (Part 34/Sec 2) or IS 3025 (Part 34/Sec 3)	± 5
viii)	Sulphates (as SO ₄), mg/l, <i>Max</i>	200	IS 3025 (Part 24/Sec 1) or IS 3025 (Part 24/Sec 2)	± 5
ix)	Total alkalinity, mg/l, <i>Max</i>	200	IS 3025 (Part 23)	± 5

Table 1 (Concluded)

Sl No.	Parameters	Requirement	Method of Test as per IS	Permissible Tolerance, Percent (for Checking the Conformity of FTKs)
(1)	(2)	(3)	(4)	(5)
x)	Total hardness (as CaCO ₃), mg/l, <i>Max</i>	200	IS 3025 (Part 21)	± 5
xi)	Total arsenic ³⁾ (as As), mg/l, <i>Max</i>	0.01	IS 3025 (Part 37)	see Note 5
xii)	Fluoride (as F), mg/l, <i>Max</i>	1.0	IS 3025 (Part 60)	± 5
xiii)	Total coliform bacteria ⁴⁾ , cfu/ml	Shall not be detectable in any 100 ml sample	IS 5401 (Part 1) or IS 15185	No Relaxation
xiv)	<i>E. Coli</i> or thermo tolerant coliform bacteria ⁴⁾ , cfu/ml	Shall not be detectable in any 100 ml sample	IS 5401 (Part 1) or IS 15185	No Relaxation

NOTES

1 The colour comparison method, used if any shall be clear and distinct, so that any person performing the test can easily understand. The booklets describing the procedures and colour charts shall be suitably laminated and shall be the integral part of the kit. It is recommended that if required by the purchaser the booklet may also be provided in the local language.

2 For the parameters to be tested based on colorimetric principle, it is recommended that colour measurement should be on vertical comparing. For this, the apparatus such as tube may have flat base. It is recommended that for colorimetry-based tests, colour comparison charts should have minimum 5 distinguished colours for easy visual comparison and interpretation.

3 The reagents for this parameters shall also be provided if the parameter is asked by the purchaser.

4 For microbiological parameters, manufacturer shall provide Limit of Detection (LoD). It shall not be less than 1 cfu/100 ml in any case.

5 In case of colorimetric analysis of arsenic, the FTKs shall be able to detect at 5 ppb and 10 ppb levels.

6 The TDS meter method may be used as a routine method for analysis after calibrating it with the gravimetric method specified in IS 3025 (Part 16) by the TDS meter manufacturer and a certificate is provided for the same. Periodical calibration with standard test solution provided by the FTK manufacturer shall be carried out by the users of the FTKs.

4.2 It is recommended that if consecutive three readings of the kit are beyond the acceptable limits but within the specified tolerances as specified at col (5) of Table 1, then a re-verification method by the laboratory method may be done.

5 INSTRUMENTS OR APPARATUS

All glass/plastic ware, instruments and apparatus supplied with kit should be of highest quality. In case kits consist of measuring instruments, they shall be calibrated.

6 REAGENT

6.1 The required reagents or standards or chemicals included in the kit shall have minimum shelf life of 12 months from the date of manufacture. The reagents, or chemicals required to perform tests as specified in col (4) of Table 1 shall be kept in the kit in user friendly containers.

6.2 The FTKs shall consist of reagents either in liquid form or powder sachet/table strip. The bottles for liquid reagents shall be made of high density polyethylene (HDPE) or low density polyethylene

(LDPE) or polypropylene (PP) plastic material, or any other suitable material which does not affect the quality of the reagents kept inside.

6.3 The reagents or standards or chemicals in the field test kit (FTK) shall be sufficient to test minimum 100 water sample.

6.4 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (see IS 1070) shall be employed in the tests. It is recommended that the reagents be of analytical reagent (AR)/laboratory reagent (LR) grade.

NOTE — 'Pure Chemicals' shall mean chemicals that do not contain impurities which affect the result of analysis.

7 FABRICATION

7.1 Material

The kit shall be made of suitable light weight and durable material such as HDPE or PP and shall be internally lined with chemical resistant material. It shall be sturdy enough to withstand conditions for

field testing.

7.2 Construction

The kits shall have suitable partitions, depending upon the instruments, apparatus, and reagent bottles to be kept inside, so as to ensure minimum disturbances to the instruments, apparatus, and reagents during movements. It is recommended that the reagent bottles should be placed in a tight fitting cover made of suitable material, to prevent disruptions during transit.

7.3 Joints

The kits shall be suitably reinforced at joints to withstand rough handling in transit and field condition. It shall have durable locking to secure all the components.

7.4 Strapping Facilities

The kit shall be provided with carrying handle or hanging straps.

8 REQUIREMENTS

8.1 The kit shall contain all the instruments, apparatus, and reagents required for carrying out the tests as declared by the manufacturer (*see 9.2*).

8.2 There shall be no damage to the kit box and the containers such as bottles, etc kept inside it when dropped from a height of about 1 m. The kit and the containers kept inside it shall not break and leak.

8.3 The kit shall be able to withstand a temperature exposure of range of $50\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, and $5\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ when placed in a heating/cooling equipment and maintained at that temperature for 30 min. When examined after this period, there shall not be deformation of the box, the lining material and the containers. There shall not be any loss of reagents during this period. The manufacturer shall submit shelf life study data of reagents.

8.4 The refills for kits should be made available within 30 days on demand. The required specification of refill pack of FTK are as follows:

- a) The reagents provided in the refill shall have the shelf life (minimum 12 months) mentioned on the pack (*see 9.5*); and
- b) Refill pack must be packed in a suitable material provided that it shall not contaminate the inner content of the

containers.

9 LABELLING/MARKING

9.1 The kits shall be marked legibly and indelibly with the manufacturer's name and address.

9.2 The kit shall also be clearly marked with the tests which can be performed using the kit.

9.3 A list of the instruments, apparatus, and reagents along with their quantity shall also be kept inside the kit.

9.4 Each reagent or standard or chemical shall be properly labelled with name, identification no., date of manufacturing, batch number, and expiry date. The label shall be such that they do not get removed.

9.5 Instruction Sheet or Operation Manual

9.5.1 The manufacturer shall provide detailed laminated instruction sheet or operational manual with direction for usage, disposal guidelines, and precautions to be taken while taking water sample. The manufacturer shall also provide a list of do and don't as a part of the operational manual.

9.5.2 Operation manual shall include information such as name of parameter as specified in col (2) of Table 1, method of test, reagents required, measuring range, limit of detection (minimum detection limit), test preparation, test procedure, and warning health hazard. The manual shall also contain instructions to the users to prevent the exposure of the microbiological media to temperature higher than $35\text{ }^{\circ}\text{C}$ during storage.

9.5.3 Manufacturer shall provide the shelf life of reagents parameter wise as prescribed in Table 2.

9.6 The manufacturer shall provide permissible (maximum allowable) limit data sheet for parameter prescribed in col (2) of Table 1, and it shall be in the format as prescribed in Table 2. These sheets must be laminated.

10 BIS CERTIFICATION MARKING

The kit(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

Table 2 Permissible (Maximum Allowable) Limits for Parameters
(Clauses 9.5.3 and 9.6)

SI No.	Parameters	Requirement	Shelf Life of Reagents, <i>Max</i>	Permissible Limits
(1)	(2)	(3)	(4)	(5)
i)	pH	6.5 - 8.5		
ii)	Turbidity, NTU, <i>Max</i>	1		
iii)	Total dissolved solids, mg/l, <i>Max</i>	500		
iv)	Chloride (as Cl), mg/l, <i>Max</i>	250		
v)	Free residual chlorine, mg/l, <i>Min</i>	0.2		
vi)	Iron (as Fe), mg/l, <i>Max</i>	1.0		
vii)	Nitrates (as NO ₃), mg/l <i>Max</i>	45		
viii)	Sulphates (as SO ₄), mg/l, <i>Max</i>	200		
ix)	Total alkalinity, mg/l, <i>Max</i>	200		
x)	Total hardness (as CaCO ₃), mg/l, <i>Max</i>	200		
xi)	Total arsenic (as As), mg/l, <i>Max</i>	0.01		
xii)	Fluoride (as F), mg/l, <i>Max</i>	1.0		
xiii)	Total coliform bacteria	Shall not be detectable in any 100 ml sample		
xiv)	<i>E. Coli</i> or thermo tolerant coliform bacteria	Shall not be detectable in any 100 ml sample		

ANNEX A

(Clause 2)

LIST OF REFERRED STANDARDS

IS No.	Title	IS No.	Title
IS 3025	Methods of sampling and test physical and chemical for water and waste water:	(Sec 3) : 2021	Determination of nitrite nitrogen and nitrate nitrogen and the sum of both by flow analysis CFA and FIA and spectrometric detection
(Part 10) : 1984	Turbidity (<i>first revision</i>)		
(Part 11) : 2022	pH value (<i>second revision</i>)	(Part 37) : 2022	Arsenic (<i>second revision</i>)
(Part 16) : 2023	Filterable residue (total dissolved solids) at 180 °C (<i>second revision</i>)	(Part 53) : 2003	Iron (<i>first revision</i>)
(Part 21) : 2009	Hardness (<i>second revision</i>)	(Part 60) : 2008	Fluoride (<i>first revision</i>)
(Part 23) : 1986	Alkalinity (<i>first revision</i>)	IS 5401 (Part 1) : 2012	Microbiology of food and animal feeding stuffs — Horizontal method for the detection and enumeration of coliforms: Part 1 Colony count technique (<i>second revision</i>)
(Part 24)	Sulphates,		
(Sec 1) : 2022	Gravimetric and turbidity methods (<i>second revision</i>)	IS 7022 (Part 1) : 1973	Glossary of term relating to water, sewage and industrial effluents: Part 1
(Sec 2) : 2021	Method by continuous flow analysis	IS 7022 (Part 2) : 1979	Glossary of terms relating to water, sewage and industrial effluents: Part 2
(Part 26) : 2021	Chlorine residual (<i>second revision</i>)		
(Part 32) : 1988	Chloride (<i>first revision</i>)	IS 15185 : 2016	Water Quality — Detection and enumeration of <i>Echerichia Coli</i> and coliform bacteria — Membrane filtration method for water with low bacterial background flora (<i>first revision</i>)
(Part 34) : 1988	Nitrogen (<i>first revision</i>),		
(Sec 2) : 2021	Determination of ammonium nitrogen method by flow analysis CFA and FIA and spectrometric detection		

ANNEX B*(Foreword)***COMMITTEE COMPOSITION**

Water Quality Sectional Committee, CHD 36

<i>Organization</i>	<i>Representative(s)</i>
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Confederation of Indian Industry, New Delhi	DR KAPIL K. NARULA DR SIPIKA CHAUHAN (<i>Alternate</i>)
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Himachal Pradesh State Pollution Control Board, Govt of Himachal Pradesh	DR T. B. SINGH ER PRAVEEN GUPTA (<i>Alternate</i>)
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PANEL COMPOSITION

Panel for Formulation of Standard for Field Test Kits Used for Surveillance of Drinking Water Panel, CHD 36 : P2

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WORKING GROUP COMPOSITION

To Prepare a Document on Subject Field Test Kit (FTKs) to be Used for Surveillance of Drinking Water
Working Group, CHD 36 : WG01

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